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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/501,497	07/12/2004	Chen Qi	D23-7022	8279
26294	7590 06/13/2006	EXAMINER		
-	SUNDHEIM, COVELL	HEALY, BRIAN		
1300 EAST NINTH STREET, SUITE 1700 CLEVEVLAND, OH 44114			ART UNIT	PAPER NUMBER
·	,		2883	

DATE MAILED: 06/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati n N .	Applicant(s)	
				t.
	Offic Action Summary	10/501,497	QI ET AL.	
	omo nodon cammary	Examin r	Art Unit	
	The MAIL INC DATE of this a manufaction on	Brian M. Healy	2883	
Period fo	, •			
VVHIO - Exte after - If NO - Failt Any	CORTENED STATUTORY PERIOD FOR REPLICHEVER IS LONGER, FROM THE MAILING [Pensions of time may be available under the provisions of 37 CFR 1. If SIX (6) MONTHS from the mailing date of this communication. Of period for reply is specified above, the maximum statutory period period for reply within the set or extended period for reply will, by statular reply received by the Office later than three months after the mailing department term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUI .136(a). In no event, however, may d will apply and will expire SIX (6) M te, cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this commu ABANDONED (35 U.S.C. § 133).	
Status				
1)⊠	Responsive to communication(s) filed on the	amendment filed 5/10/20	<u>06</u> .	
		is action is non-final.		
3)[Since this application is in condition for allowa	ance except for formal ma	atters, prosecution as to the me	erits is
	closed in accordance with the practice under	Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.	
Disp sit	ion of Claims			
4)🛛	Claim(s) 1-46 is/are pending in the application	n.		
	4a) Of the above claim(s) 1-20 is/are withdraw	vn from consideration.		
5)[Claim(s) is/are allowed.			
6)⊠	Claim(s) 21 and 22 is/are rejected.			
7)🖂	Claim(s) 23-46 is/are objected to.			
8)[Claim(s) are subject to restriction and/	or election requirement.		
Applicat	ion Papers			
9)[The specification is objected to by the Examin	er.		
·	The drawing(s) filed on 12 July 2004 is/are: a		ected to by the Examiner.	
	Applicant may not request that any objection to the	e drawing(s) be held in abey	rance. See 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including the correct	ction is required if the drawi	ng(s) is objected to. See 37 CFR 1	i.121(d).
11)	The oath or declaration is objected to by the E	xaminer. Note the attach	ed Office Action or form PTO-	152.
Priority	under 35 U.S.C. § 119			
12)🛛	Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C	. § 119(a)-(d) or (f).	
a)	All b) □ Some * c) □ None of:			
	1.⊠ Certified copies of the priority documen	nts have been received.		
	2. Certified copies of the priority documen	nts have been received in	Application No	
	3. Copies of the certified copies of the price	ority documents have be	en received in this National Sta	ge
	application from the International Burea	, ,,,		
* (See the attached detailed Office action for a lis	t of the certified copies n	ot received.	
Attachmer	atte)			
	ce of References Cited (PTO-892)	4) Intervie	w Summary (PTO-413)	
2) 🔲 Notic	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper N	o(s)/Mail Date	
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date PRIAN HEALY		of Informal Patent Application (PTO-152	2)
		o, other.	······································	·
TOL-326 (F		Action Summary 8了	Part of Paper No./Mail Date 2	20060608
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DETAILED ACTION

Allowable Subject Matter

Claims 23-46 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. None of the references of record teaches or suggests the optical decoration device wherein one or more LED's (including the limitations of claim 22) are moved up and down left and right, slant with proper angles, back and forth motion or regular and irregular rotation relative to the end of the optical fiber or LED's with different illumination angle are used, which includes LED's of differing diameter. The remaining dependent claims 24-46 are dependent upon claim 23 and also include other additional limitations (See dependent claims for the specifics of these limitations).

Applicant has canceled claims 1-20.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 21 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reed, U.S.P. No. 6,361,198 in view of Marshall et. al., U.S.P. No.6,200,002.

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Reed 198' teaches (Figs.1-22) an optical fiber (Christmas Tree)(Note: it is standard practice for conventional artificial Chrismas trees to be both waterproof and fireproof) decoration device comprising: a plurality of optical fibers 24,26,28 which can be illuminated by plural LED's 40 which can emit monochromatic or polychromatic (multi-colored) light of varying degrees of luminousity and can provide multi-colored displays wherein the LED colors, LED timing and LED luminousity are controlled by by a manual switch or sensor (Note: it has long been known in artificial Christmas displays to synchronize music with light luminosity via sound sensors)/ microcomputer/IC means/52, 14 with associated controller means (located inside the base of the trees). Reed 198' does not specifically teach that overlapping light beams from the LED's are mixed inside of a waveguide structure.

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Marshall et. al., U.S.P. No. 6,200,002 teaches (figs.1-12B) an optical decorative device that includes plural LED's RGB which sends and mixes different overlapping light beams in a light waveguide structure 10 for a pleasing display.

Since Reed 198' and Marshall et. al. 002' are from the same field of endeavor, i.e. optical fiber decorative devices, the purpose of using plural LED's for light mixing in an optical waveguide structure, as is taught by Marshall et. al. 002', would have been recognized in the pertinent art of Reed 198'.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the optical fiber decorative device of Reed 198' by color mixing a plurality of overlapping light beams from plural LED's in an optical

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waveguide structure, as is taught Marshall et. al. 002', for the purpose of making a color mixing display.

Response to Arguments

Applicant's arguments with respect to claims 21-46 have been considered but are moot in view of the new ground(s) of rejection. This office action has not yet been made final.

The following references are also cited by the Examiner as being pertinent prior art: Osawa, U.S.P. No. 5,890,790 (Figs.1-12), Pashley et. al., U.S.P. No. 6,264,346 (Figs.1-6C) and Marshall et. al., U.S.P. No. 6,139,166 (Figs.1-4).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian M. Healy whose telephone number is (571)272-2347. The examiner can normally be reached on Compressed schedule Mon.-Fri. 6AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on (571)272-2415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Brian M. Healy **Primary Examiner** Art Unit 2883

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BRIAN HEALY PRIMARY EXAMINER ART UNIT 25 2883

Bulted